



**MINUTES OF THE  
INDUSTRIAL MINERALS ADVISORY COUNCIL  
Tan-Tar-A Resort  
494 Tan-Tar-A Drive  
Osage Beach, Mo.  
December 3, 2015  
12 p.m. – 1 p.m.**

**Council Members Present:** Mr. Joe Gillman, Chairperson, Department of Natural Resources (DNR), Missouri Geological Survey (MGS); Mr. Chris Upp, Conco Quarries Inc.; Mr. Mikel Carlson, Gredell Engineering Resources; Mr. Dave Ahlvers, Missouri Department of Transportation; Mr. Ryan Winter, Winter Brothers Material Company; Mr. David Keller, ANH Refractories, Inc.; Ms. Diane Tucker, APAC

**Council Members Absent:** None.

**DNR Staff Present:** Ms. Carey Bridges, Geological Survey Program Director; Mr. Larry Pierce, Geologic Resources Section Chief; Ms. Rhonda Wilks, Environmental Geology Section Senior Office Support and Acting Council Secretary; Mr. Pat Mulvany, Industrial Minerals Unit Chief; Mr. Dave Bridges, Industrial Minerals Unit Geologist.

**Guests Present:** Mr. Eric Neilson, APAC.

Chair Gillman brought the meeting to order at 12:15 p.m.

**Welcome, Introductions and DNR and MGS Budget Update**

Mr. Gillman asked for introductions from the council, staff and guests.

**Minutes of the December 4, 2014, Meeting**

Mr. Chris Upp moved to accept the minutes of the meeting held December 4, 2014, as circulated. Mr. Mikel Carlson seconded the motion. Motion carried.

**Items of General Interest**

Ms. Bridges updated the Council on the following: current construction project at the Buehler Building in Rolla, noting the replacement limestone panels for the building exterior were purchased from the Phenix Quarry; GeoSTRAT mapping application, and the USGS Minerals Grant recently awarded to the MGS by the United States Geological Survey.

## **Geologic Resources Fund Budget and Financial Report**

Mr. Mulvany updated the Council on the Fiscal Year 2015 and 2016 budgets and expenditures for the Geologic Resources Fund. Mr. Mulvany indicated the current budget was on schedule. The large purchase in June was for two-55 gallon drums of formic acid. Discussion was held on other end of fiscal year purchases.

## **Industrial Minerals Unit Work Activities Update**

Mr. Mulvany and Mr. Bridges updated the Council on unit activities including: assisting STATEMAP mappers with stratigraphic issues; assisting Water Resources Center staff in delineating the Mississippian/Devonian boundary in a well in Lincoln County and assisting with heavy mineral separations on sandstone or provenance work on formations. The unit also is working with professors and students from St. Louis University on the Avon Diatreme in Ste. Genevieve County, and two students from Missouri S&T on dating projects for both the Decaturville structure and the Avon Diatremes, involving heavy mineral separation. A couple of individuals from Licking, MO, brought a large rock to MGS for inspection. It was determined to be an octahedrite iron meteorite, approximately 17 pounds. MGS now has a slice on display in the Edward L. Clark Museum. Additional accomplishments this year related to industrial mineral commodities included: involvement in historic restoration in St. Louis, namely the Kirkwood Train Station; offering expertise at the St. Louis Lafayette Park, namely inquiries on type of pillar stone and what could be done to preserve it.

Chair Gillman stated the MGS produced the awards given for the Governor's Conference on Natural Resource using Decaturville Breccia, which was cut and polished for these awards. MGS applied for and was subsequently presented with the Association of American State Geologist's Charles Mankin Award, which recognizes the excellence in geologic publications as it relates to regional geology, structural geology and geologic mapping. The Association of American State Geologist annual conference will be held in Branson in June 2017. A field trip will be held during the conference, including visits to some of the quarries, which will be an opportunity to showcase Missouri's resources.

## **Open Discussion**

Chair Gillman gave council members the opportunity to discuss any other topics or ask any questions. Ms. Tucker requested assistance in locating resources, studies or mapping information relating to the St. Peter's Sandstone-limestone in the Clinton, MO, area.

Mr. Ahlvers gave an update on the Missouri Department of Transportation's funding status and high friction overlays.

## **Schedule Next Meeting Date**

After discussion, the next meeting was tentatively scheduled to be held Dec. 1, 2016, in conjunction with the 2016 Missouri Limestone Producers Association meeting.

### **Adjournment of Business Meeting**

Chair Gillman asked for a motion to adjourn the meeting. Mr. Carlson moved to adjourn the meeting. Mr. Ahlvers seconded the motion. Motion carried.

Meeting was adjourned at 1:14 p.m.